

# A MOUNTING SYSTEM REEVED TO MOVE AN OBJECT IN TWO-DIMENSIONS AND METHODS RELATING TO SAME

## Abstract

Embodiments of the invention move objects throughout two-dimensional space by using a support line that is coupled with both opposing sides of the platform. This line controls the Y-axis motion and Z-axis motion of the platform and is designated the YZ movement line. Displacing a portion of the YZ movement line allows vertical displacement of the platform to be traversed. There is no need for a complex computer control system since the Z-axis displacement is substantially independent of horizontal movement over a coverage area serviced by the platform. A mounting beam for positioning and supporting the Z-axis and Y-axis motors and visual display element(s) and other optional multimedia devices may also be positioned independently of the platform. In addition, since the line is commanded from one point, distantly located motors and electrical cables are not required. Many types of useful devices may then be attached to the platform including devices that require external power or devices that pos-

sess their own power and are operated via wireless signals.